IN THE CLAIMS:

A complete listing of the claims is set forth below. Please amend the claims as follows:

1-38. (Canceled)

39. (New) A computer-implemented system for providing bulk data transfers between

one or more data stores, comprising:

a data integration server coupled with the one or more data stores, the data integration

server comprising:

a plurality of programmatic source interfaces coupled with one or more source

data stores, wherein the plurality of programmatic source interfaces are defined according to a

source interface specification and are exposed during a bulk data transfer, one or more data

entities are extracted from the one or more source data stores; and

a plurality of programmatic target interfaces coupled with one or more target data

stores, wherein the plurality of programmatic target interfaces are defined according to a target

interface specification and are exposed during the bulk data transfer, one or more of the extracted

data entities are loaded into the one or more target data stores.

40. (New) The system of Claim 39, wherein the plurality of programmatic source

interfaces and the plurality of programmatic target interfaces comprise JAVA interfaces.

41. (New) The system of Claim 39, wherein the plurality of programmatic source

interfaces and the plurality of programmatic target interfaces are exposed as an industry standard

interface supporting bulk data transfers according to an industry standard protocol.

42. (New) The system of Claim 41, wherein the data integration server is configured

to:

receive a request from a client indicating that the client is extracting data from one

or more source data stores and loading data into one or more target data stores in accordance

with the industry standard protocol;

create a plurality of programmatic source interfaces to enable extraction of the

data from the one or more source data stores;

create a plurality of programmatic target interface to enable loading of the data

into the one or more target data stores;

for data extraction, as the plurality of programmatic source interfaces produce the

data extracted from the one or more source data stores, send the outgoing data to the client in

accordance with the industry standard protocol; and

for data loading, as the data arrives from the client in accordance with the industry

standard protocol, send the incoming data to the plurality of programmatic target interfaces for

loading into the one or more target data stores.

43. (New) The system of Claim 39, wherein loading data entities comprises inserting,

updating, or deleting data entities.

44. (New) The system of Claim 39, wherein the data integration server is configured

to:

define one or more resources within each of the plurality of programmatic source

interfaces and the plurality of programmatic target interfaces which represent data entities within

the one or more data stores; and

in response to a request to execute a bulk data transfer involving one or more resources

within the one or more data stores, create each of the plurality of programmatic source interfaces

and the plurality of programmatic target interfaces within which at least one of the resources is

defined.

Response to Notice of Non-Responsive Amendment Attorney Docket No. 020431.1292 Serial No. 10/611,560 45. (New) The system of Claim 44, wherein each of the plurality of programmatic

source interfaces and the plurality of programmatic target interfaces persists, once created:

if a programmatic source interface, for the entirety of the bulk data transfer before being

released; and

if a programmatic target interface, for a single step of the bulk data transfer before being

released.

46. (New) The system of Claim 44, further comprising one or more session interfaces

and wherein:

the plurality of programmatic source interfaces and the plurality of programmatic target

interfaces are defined within each session interface;

each session interface isolates from a defined programmatic source interface and

programmatic target interface details associated with export and import of resources involved in

a bulk data transfer; and

the data integration server is further configured to, in connection with creating the

plurality of programmatic source interfaces and the plurality of programmatic target interfaces,

create each session interface within which at least one of the plurality of programmatic source

interfaces and the plurality of programmatic target interfaces is defined.

47. (New) The system of Claim 46, wherein a session interface persists, once created,

either for the entirety of the bulk data transfer or for the entirety of multiple data transfers

according to its definition.

Response to Notice of Non-Responsive Amendment Attorney Docket No. 020431.1292 Serial No. 10/611,560 Page 4 of 21 48. (New) The system of Claim 39, wherein the data integration server is configured

to:

allow each of the plurality of programmatic source interfaces and the plurality of

programmatic target interfaces to produce or consume data entities in a desired format;

convert data entities produced in a first format to a programmatic source interface to a

second format to a programmatic target interface only if necessary because the first and second

formats are different.

49. (New) The system of Claim 39, wherein the data integration server further

comprises one or more relational interfaces as alternatives to the plurality of programmatic

source interfaces and the plurality of programmatic target interfaces, each relational interface

coupled with a corresponding relational data store and exposed within the data integration server

during a bulk data transfer to enable the data integration server to read data entities directly from

and write data entities directly to the one or more relational data stores during the bulk data

transfer without using the plurality of programmatic source interfaces or the plurality of

programmatic target interfaces.

50. (New) The system of Claim 49, wherein each of the one or more relational

interface comprises:

an interface schema file providing a database-neutral description of a physical database

schema of the one or more relational data stores; and

an interface mapping file providing a logical-to-physical mapping for all data entities

defined for the one or more relational interfaces to enable the data integration server to execute

bulk data transfers between one or more relational data stores having different physical database

schema.

Response to Notice of Non-Responsive Amendment Attorney Docket No. 020431.1292 Serial No. 10/611,560 Page 5 of 21 51. (New) A computer-implemented method for executing a bulk data transfer

between persistent data stores, comprising:

providing, by a server, a plurality of programmatic source interfaces coupled with one or

more source data stores, wherein the plurality of programmatic source interfaces are defined

according to a common programmatic source interface specification and are exposed during a

bulk data transfer;

extracting, by the server, one or more data entities from the one or more source data

stores for loading into one or more selected target data stores; and

providing, by the server, a plurality of programmatic target interfaces coupled with one or

more target data stores, wherein the plurality of programmatic target interfaces are defined

according to a common programmatic target interface specification and are exposed during the

bulk data transfer;

loading, by the server, one or more data entities into the one or more target data stores

from the one or more source data stores.

52. (New) The method of Claim 51, wherein the plurality of programmatic source

interfaces and the plurality of programmatic target interfaces comprise JAVA interfaces.

53. (New) The method of Claim 51, wherein the plurality of programmatic interfaces

are exposed as an industry standard interface supporting bulk data transfers according to an

industry standard protocol.

Response to Notice of Non-Responsive Amendment Attorney Docket No. 020431.1292 Serial No. 10/611,560 Page 6 of 21 54. **(New)** The method of Claim 53, further comprising:

receiving a request from a client indicating that the client is extracting data from

one or more source data stores and loading data into one or more target data stores in accordance

with the industry standard protocol;

creating a plurality of programmatic source interfaces to enable extraction of the

data from the one or more source data stores;

creating a plurality of programmatic target interface to enable loading of the data

into the one or more target data stores;

for data extraction, as the plurality of programmatic source interface produces the

data extracted from the one or more source data stores, sending the outgoing data to the client in

accordance with the industry standard protocol; and

for data loading, as the data arrives from the client in accordance with the industry

standard protocol, sending the incoming data to the plurality of programmatic target interfaces

for loading into the one or more target data stores.

55. (New) The method of Claim 51, wherein loading data entities comprises inserting,

updating, or deleting data entities.

56. (New) The method of Claim 51, further comprising:

defining one or more resources within each of the plurality of programmatic interfaces

which represent data entities within the one or more data stores; and

in response to a request to execute a bulk data transfer involving one or more resources

within the one or more data stores, creating each of the plurality of programmatic source

interfaces and the plurality of programmatic target interfaces within which at least one of the

resources is defined.

Response to Notice of Non-Responsive Amendment Attorney Docket No. 020431.1292 Serial No. 10/611,560 57. (New) The method of Claim 56, wherein each of the plurality of programmatic

source interfaces and the plurality of programmatic target interfaces persists, once created:

if a programmatic source interface, for the entirety of the bulk data transfer before being

released; and

if a programmatic target interface, for a single step of the bulk data transfer before being

released.

58. (New) The method of Claim 56, further comprising providing one or more session

interfaces, wherein:

the plurality of programmatic source interfaces and the plurality of programmatic target

interfaces are defined within each session interface;

each session interface isolates from its one or more defined programmatic interfaces

details associated with export and import of resources involved in a bulk data transfer; and

in connection with creating the plurality of programmatic source interfaces and the

plurality of programmatic target interfaces, each session interface is created within which at least

one of the plurality of programmatic source interfaces and the plurality of programmatic target

interfaces is defined.

59. (New) The method of Claim 58, wherein a session interface persists, once created,

either for the entirety of the bulk data transfer or for the entirety of multiple data transfers

according to its definition.

60. (New) The method of Claim 51, further comprising:

allowing each of the plurality of programmatic source interfaces and the plurality of

programmatic target interfaces to produce or consume data entities in a desired format;

converting data entities produced in a first format to a programmatic source interface to a

second format to a programmatic target interface only if necessary because the first and second

formats are different.

61. (New) The method of Claim 51, further comprising providing one or more

relational interfaces as alternatives to the plurality of programmatic source interfaces and the

plurality of programmatic target interfaces, each relational interface coupled with a

corresponding relational data store and exposed within the data integration server during a bulk

data transfer to enable the data integration server to read data entities directly from and write data

entities directly to the one or more relational data stores during the bulk data transfer without

using the plurality of programmatic source interfaces or the plurality of programmatic target

interfaces.

62. (New) The method of Claim 61, wherein each of the one or more relational

interface comprises:

an interface schema file providing a database-neutral description of a physical database

schema of the one or more relational data stores; and

an interface mapping file providing a logical-to-physical mapping for all data entities

defined for the one or more relational interfaces to enable the data integration server to execute

bulk data transfers between one or more relational data stores having different physical database

schema.

Response to Notice of Non-Responsive Amendment Attorney Docket No. 020431.1292 Serial No. 10/611,560 Page 9 of 21 63. (New) Software for executing a bulk data transfer between persistent data stores,

the software being embodied in computer-readable media and when executed configured to:

provide a plurality of programmatic source interfaces coupled with one or more source

data stores, wherein the plurality of programmatic source interfaces are defined according to a

common programmatic source interface specification and are exposed during a bulk data

transfer;

extract one or more data entities from the one or more source data stores for loading into

one or more selected target data stores; and

provide a plurality of programmatic target interfaces coupled with one or more target data

stores, wherein the plurality of programmatic target interfaces are defined according to a

common programmatic target interface specification and are exposed during the bulk data

transfer;

load one or more data entities into the one or more target data stores from the one or more

source data stores.

64. (New) The software of Claim 63, wherein the plurality of programmatic source

interfaces and the plurality of programmatic target interfaces comprise JAVA interfaces.

65. (New) The software of Claim 63, wherein the plurality of programmatic source

interfaces and the plurality of programmatic target interfaces are exposed as an industry standard

interface supporting bulk data transfers according to an industry standard protocol.

Response to Notice of Non-Responsive Amendment Attorney Docket No. 020431.1292 Serial No. 10/611,560 Page 10 of 21 66. **(New)** The software of Claim 65, further configured to:

receive a request from a client indicating that the client is extracting data from one or

more source data stores and loading data into one or more target data stores in accordance with

the industry standard protocol;

create a plurality of programmatic source interfaces to enable extraction of the data from

the one or more source data stores;

create a plurality of programmatic target interface to enable loading of the data into the

one or more target data stores;

for data extraction, as the a plurality of programmatic source interface produces the data

extracted from the one or more source data stores, send the outgoing data to the client in

accordance with the industry standard protocol; and

for data loading, as the data arrives from the client in accordance with the industry

standard protocol, send the incoming data to the a plurality of programmatic target interfaces for

loading into the one or more target data stores.

67. (New) The software of Claim 63, wherein loading data entities comprises

inserting, updating, or deleting data entities.

68. **(New)** The software of Claim 63, further configured to:

define one or more resources within each of the plurality of programmatic source

interfaces and the plurality of programmatic target interfaces which represent data entities within

the one or more data stores; and

in response to a request to execute a bulk data transfer involving one or more resources

within the one or more data stores, create each of the plurality of programmatic source interfaces

and the plurality of programmatic target interfaces within which at least one of the resources is

defined.

69. (New) The software of Claim 68, wherein each of the plurality of programmatic

source interfaces and the plurality of programmatic target interfaces persists, once created:

if a programmatic source interface, for the entirety of the bulk data transfer before being

released; and

if a programmatic target interface, for a single step of the bulk data transfer before being

released.

70. (New) The software of Claim 68, further configured to provide one or more

session interfaces, wherein:

the plurality of programmatic source interfaces and the plurality of programmatic target

interfaces are defined within each session interface;

each session interface isolates from its plurality of programmatic source interfaces and

the plurality of programmatic target interfaces details associated with export and import of

resources involved in a bulk data transfer; and

in connection with creating the plurality of programmatic source interfaces and the

plurality of programmatic target interfaces, create each session interface within which at least

one of the plurality of programmatic source interfaces and the plurality of programmatic target

interfaces is defined.

71. (New) The software of Claim 70, wherein a session interface persists, once

created, either for the entirety of the bulk data transfer or for the entirety of multiple data

transfers according to its definition.

Response to Notice of Non-Responsive Amendment Attorney Docket No. 020431.1292 Serial No. 10/611,560 Page 12 of 21 72. **(New)** The software of Claim 63, further configured to:

allow each of the plurality of programmatic source interfaces and the plurality of

programmatic target interfaces to produce or consume data entities in a desired format;

convert data entities produced in a first format to a programmatic source interface to a

second format to a programmatic target interface only if necessary because the first and second

formats are different.

73. (New) The software of Claim 63, further configured to provide one or more

relational interfaces as alternatives to the plurality of programmatic source interfaces and the

plurality of programmatic target interfaces, each relational interface coupled with a

corresponding relational data store and exposed within a data integration server during a bulk

data transfer to enable the data integration server to read data entities directly from and write data

entities directly to the one or more relational data stores during the bulk data transfer without

using the plurality of programmatic source interfaces and the plurality of programmatic target

interfaces.

74. (New) The software of Claim 73, wherein each relational interface comprises:

an interface schema file providing a database-neutral description of a physical database

schema of the one or more relational data stores; and

an interface mapping file providing a logical-to-physical mapping for all data entities

defined for the one or more relational interfaces to enable the data integration server to execute

bulk data transfers between one or more relational data stores having different physical database

schema.

Response to Notice of Non-Responsive Amendment Attorney Docket No. 020431.1292 Serial No. 10/611,560 Page 13 of 21